

Division of Electronic Components and Systems within the German
Electrical and Electronic Manufacturers' Association (ZVEI)

Aluminium Electrolytic Capacitor

Product Family Name	Radial	Panasonic: ECEA**KA / ECEA**KS(KK) / ECA**M / EEA(EEU)GA / EEUFC / EEUFC / ECA**HG / EEUEB / EEUED / EEUTA Frolyt: EKM, EKMU, EKS, EKSU, EKL, EKR, ERF, ERH, ERY
Date	28.10.2004	
Version	02	

Construction Element	Material group	Materials	CAS if applicable	min	typical mass [wt-%]	max	Sum [%]	Traces
Active Part	Metals	Al (foil)	7429-90-5	8,1	25,8	36,3	50,1	
	Liquids	Ethylene Glycol Gamma Butyrolacton	25322-68-3 96-48-0	0,8	17,2	29,2		
	Other Materials	Paper		2,6	7,1	12,6		
Encapsulation	Metals	Al (case)	7429-90-5	14,1	21,0	29,8	40,2	
(Cover Disk)	Other Materials	Rubber		8,8	15,1	29,3		
	Plastics	PVC / PET		2,2	4,1	7,5		
		(Including about 0,04 - 0,15 % per part weight lead compound as additives in PVC)						
Termination	Metals	Fe (Sn coated) wires	7439-89-6	1,4	9,7	45,1	9,7	
Sum in total:							100	

Case sizes and weight range:

Diameter x L [mm]	Weight [g]	Diameter x L [mm]	Weight [g]	Diameter x L [mm]	Weight [g]	Diameter x L [mm]	Weight [g]
3 x 5	0.11	5 x 11	0.44	10 x 25	2.98	16 x 25	6,91
4 x 5	0.18	5 x 15	0.54	10 x 30	3.78	16 x 31,5	9,96
5 x 5	0.23	6,3 x 11,2	0.65	12,5 x 15	2.87	16 x 35	10,55
6,3 x 5	0.34	6,3 x 15	0.82	12,5 x 20	3.93	16 x 40	11,68
8 x 5	0.51	8 x 11,5	1.08	12,5 x 25	4.72	18 x 15	5,89
4 x 7	0.21	8 x 15	1.36	12,5 x 30	5.65	18 x 20	7,58
5 x 7	0.29	8 x 20	1.77	12,5 x 35	6.83	18 x 25	9,40
6,3 x 7	0.41	10 x 12,5	1.61	12,5 x 40	7.73	18 x 31,5	12,40
8 x 7	0.63	10 x 16	2.01	16 x 15	4.74	18 x 35,5	13,86
4 x 11	0.29	10 x 20	2.56	16 x 20	6.11	18 x 40	15,41

Not part of package family

Company	Panasonic	Important remarks: 1) Traces are product parts, substances etc. that are below a percentage of 0.1 % by weight. Higher limits are accepted if the substance or material is legally regulated (see note no. 2). 2) A list of the (legal) "... restrictions on substances ..." or materials is available at internet address: http://www.eicta.org/Content/Default.asp?PageID=211 . 3) Substances, materials etc. with possible harmful effects on human beings and the environment are listed. 4) There are no risks for human beings and to the environment if products are properly used as designated. This shall not apply to risks caused during procedures for disposal etc. 5) All statements herein are based on our present knowledge. If our products are used properly, there are no risks to human beings and/or the environment.
	Frolyt	